**Week 16: Research**

**2. Choose 3 React Bootstrap components and describe how they are used. You can use code examples.**

1.

function FunctionalComponent() {

    return (

        // this component is returning 2 instances of 'class Person' within a 'div' section of HTML

        <div className="App">

            <Person name='Tom' age='32'/>

            <Person name='Sally' age='34'/>

        </div>

    );

}

// defining a variable to take in 'props' as the parameter/argument

const Person = (props) => {

    // destructing 'props' to accept 2 params (name + age)

    const {name, age} = props;

    return (

        // then return 2 headings - first with the 'name' + second with person's age

        <div>

            <h1>{name}</h1>

            <h2>Person Age: {age}</h2>

        </div>

    );

};

2.

// the ‘RefactorApp’ component is rendering the 'HousesList'

class RefactorApp extends Component {

    render() {

        return (

            <div>

                <HousesList />

            </div>

        )

    }

}

export default RefactorApp;

3.

export default class House extends React.Component {

    render() {

        // to create rooms - mapping through each rooms along with indexes

        const rooms = this.props.data.rooms

            ? this.props.data.rooms.map((room, index) =>

            // creating a list element + assigning 'key' to equal 'indexes'

            <li key={index}>

                {room.name} Area: {room.area}

                {/\* button to delete upon user clicking \*/}

                <button onClick={e =>

                    this.props.deleteRoom(e. this.props.data, room)

                }>Delete</button>

            </li>)

        : null;

        return (

            <div>

                {/\* to show the name ('data' is the house) \*/}

                <h1>{this.props.data.name}</h1>

                <ul>

                    {rooms}

                </ul>

                {/\* child component with props \*/}

                <NewRoomForm

                    addNewRoom={this.props.addNewRoom} data={this.props.data} />

            </div>

        );

    }

}

**3. What is your favorite thing you learned this week?**

* I would say using the Router to be able to create a 'SPA' (single page application). I understand the benefits of compartmentalizing (i.e. components) for better organization and issue tracking (just like it is recommended to not use ‘inline’ codes often / too much), however, the fact that there is an option to be able to create an application within a single page, is neat and awesome. If it is organized and error free, the idea that a single page of code can create a whole application is really cool in my opinion.